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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,509	08/24/2001	Gregory P. Campau	1-23339	2340	
46582	7590 11/14/2006		EXAM	EXAMINER	
MACMILL	AN, SOBANSKI & TO	DDD, LLC	SCHWARTZ, CI	HRISTOPHER P	
ONE MARIT	TIME PLAZA - FOURTI	H FLOOR			
720 WATER STREET		ART UNIT	PAPER NUMBER		
TOLEDO, OH 43604			3683.		

DATE MAILED: 11/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/939,509	CAMPAU ET AL.			
		Examiner	Art Unit			
		Christopher P. Schwartz	3683			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D asions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutive reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be til will apply and will expire SIX (6) MONTHS from e. cause the application to become ARANDONE	N. mely filed  n the mailing date of this communication.			
Status						
1)⊠	Responsive to communication(s) filed on 23 C	October 2006				
2a)□		s action is non-final.				
′=	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dienoeiti	on of Claims					
·						
	Claim(s) 1-20 and 22-47 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	☐ Claim(s) <u>1-20,23-36,39 and 41</u> is/are allowed.					
_	☐ Claim(s) <u>22,36-38,40,42-47</u> is/are rejected.					
7)						
8)[_]	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers		·			
9)	The specification is objected to by the Examine	er				
			Evaminer			
,	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
•			• •			
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
11/	The dain of declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document	ts have been received.				
•	<ul><li>2. Certified copies of the priority document</li><li>3. Copies of the certified copies of the priority</li></ul>	rity documents have been receive				
* 0	application from the International Burea					
3	* See the attached detailed Office action for a list of the certified copies not received.					
			SAIOPHER PARITIES			
Attachment	• •		Cui bkim I Mah			
	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) ' No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				
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#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/23/06 has been entered.
- 2. Due to the numerous responses from applicants in this application applicants are requested to provide a marked up copy <u>and</u> a clean copy of the pending claims in the application.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 22,36-38,40,42-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Resch '099 in view of Leiber '514 and Steiner '730 or Steiner '713.

Regarding claims 22,36-38,40,42-47 Resch discloses a dual circuit brake system as readily apparent from the drawings. Resch discloses in column 17 lines 34-38 that the pump may be used as a "brake pressure source". Through regulation of the opening and closing times and pressures of the valves 106,138,142 it is readily apparent that the pump may in fact be used as the primary source for fluid pressure and the master cylinder as the auxiliary source.

Further, col. 17 lines 52+ Resch states "In the event the recirculating pump 127 is constructed as a self priming pump and a gradient present between the brake fluid reservoir 86 and the low pressure connection 136 of the recirculating pump 127 is sufficient for the operation of filling the pump chamber of the recirculating pump 127, an automatic triggering of the brake booster 17 is not necessary in order to execute automatically controlled braking on the rear axle...". Therefore, in the state of dynamics braking or ABS controlled braking the pump acts as the "normal source" for supplying fluid pressure and the master cylinder <u>can act</u> as the backup source. Further, around lines 60+ of col. 17 Resch states "...it is possible <u>in normal driver controlled</u> <u>braking to utilize the recirculating pump 127 of the rear axle brake circuit II as a brake</u> pressure source...".

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Notwithstanding this argument the reference to Leiber '514 shows this more clearly and as discussed in column 3 around line 20.

The reference to Steiner '730 is relied upon for showing how the signals from the pedal sensor 71,74 and pressure sensor 76+ may be combined and evaluated ".. in terms of the expected value of a brake pressure or of a brake force which the driver wishes to achieve..."i.e. via control of the brake valves. **Re-read the the discussion in cols. 12 and col. 15.** Applicant's limitations of "blend control", as broadly claimed, of the first and second signals are considered to be an equivalent to the multiple signal processing discussed in Steiner '730.

Note the separator units at 41-44 in Steiner '730 or at 24,26 in Steiner '713.

These units are considered to be an obvious alternative equivalent arrangement to the arrangement shown at 59,68 of Resch.

Because the brake systems of Resch and Steiner are so closely related the ordinary skilled worker in the art at the time of the invention would have found it obvious to have combined the teachings discussed above in such a way that they meet applicant's claimed limitations.

#### Response to Arguments

6. Applicant's arguments with respect to the above claims have been considered but are not persuasive. In response to applicants request as to which elements of the application are shown by Resch and which are shown by Leiber, the examiner was simply stating that, as broadly claimed, Resch could meet the claimed requirements of a "a normal fluid source supplying a first fluid" and "a backup source supplying a second

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fluid" (claim 42) given the discussion in Resch in col. 17 (as pointed out above). But that given applicant's interpretation of using the pump as the "normal source" Leiber teaches this idea is known in a similar braking system and to have incorporated these teachings into Resch would have been obvious.

Likewise, the examiner is somewhat confused as to applicant's supposed confusion over the combination of references to Resch and either of the Steiner patents. Both of these patents are directed to nearly identical subject matter. Resch discloses an ABS dual circuit front-rear proportioning brake system which uses pedal displacement/force thresholds to control feel and actuation of the ABS system. With control from the control unit 22 the cylinder at 59 is primarily responsible for controlling the front-rear apportioning of the front and rear brake circuits. This system is similar to what Steiner '730 achieves as explained in column 2 lines 59-65, col 3 lines 8-16, col 9 lines 32-58 and col 12 lines 29-57 of the patent. Because these system are both directed to front-rear apportioning systems and use pedal force and/or displacement characteristics to put the systems into automatic braking mode, the interchangeability of equivalent component parts (such as the modulator 59,68 and valves in Resch for the buffer system 41-43 and valves of Steiner) should be fairly obvious.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 571-272-7123. The examiner can normally be reached on M-F 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim McClellan can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

Cps 11/9/06